Section 5: Ambient Air Quality Monitoring

5.1 Attainment of the 1-Hour Ozone Standard

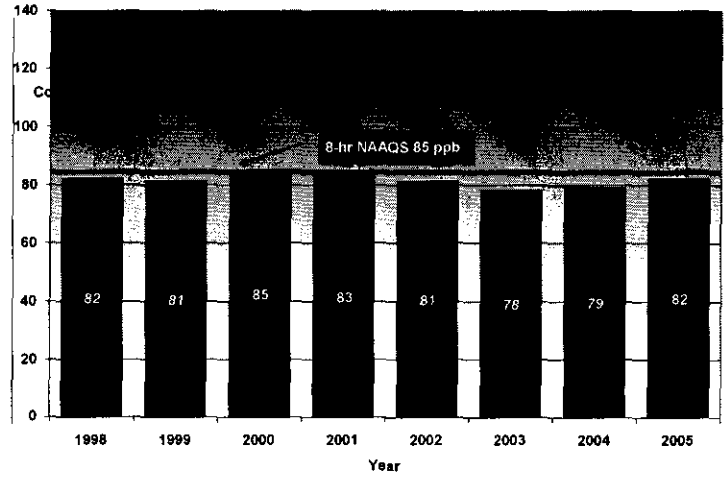
The monitoring site in Lafayette Parish (EPA AQS code 22 055 0007)[2] has been in operation since October 1, 1983 and has been operated in accordance with the requirements of 40 CFR 58 and the EPA-approved Quality Assurance Program Plan. The NAAQS for 1-hour ozone is 120 ppb based on a 1-hour average sample. Because of rounding, a 1-hour monitor reading of 125 ppb is considered an exceedance of the 1-hour ozone standard, whereas a reading of 124 ppb is considered as meeting the standard.

The Lafayette site continued to monitor attainment with the 1-hour ozone NAAQS through the end of calendar year 2005. The most recent three years of ozone monitoring data (2003-2005) for Lafayette Parish indicate an ozone design value of 90 ppb for 2003, 86 ppb for 2004 and 94 ppb for 2005. EPA revoked the 1-hour ozone standard effective June 15, 2005.

5.2 Attainment of the 8-Hour Ozone Standard

The NAAQS for 8-hour ozone is 80 ppb based on the three-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area. An 8-hour monitor reading of 85 ppb is considered an exceedance of the 8-hour ozone standard and a reading of 84 ppb is considered as meeting the standard. Figure 2 illustrates the trend in 8-hour ozone design values in ppb for the Lafayette site from 1998 through 2005.

Figure 2: LAFAYETTE SITE
OZONE 8-HOUR DESIGN VALUE
1998 - 2005



[2] The Lafayette monitor has been relocated 4 times and was assigned different AQS numbers accordingly. The original site from 1983-92 was 22-055-0003; 1992-93 was 22-055-0004; 1994-2005 was 22-055-0005 to the present site at 22-055-0007.

Table 5-1 indicates that the area has monitored attainment for the latest five complete three-year periods.

Table 5-1 Lafayette Parish

8-Hour Ozone Design Values 1998-2005

Year	Highest	2nd	3rd	4th	# of days	Design Value (ppm)
1998	0.092	0.089	0.085	0.084	3	0.082
1999	0.090	0.090	0.086	0.081	3	0.081
2000	0.113	0.110	0.095	0.092	8	0.085
1999	0.090	0.090	0.086	0.081	3	0.081
2000	0.113	0.110	0.095	0.092	8	0.085
2001	0.085	0.081	0.078	0.077	1	0.083
2000	0.113	0.110	0.095	0.092	8	0.085
2001	0.085	0.081	0.078	0.077	1	0.083
2002	0.083	0.081	0.079	0.075	0	0.081
2001	0.085	0.081	0.078	0.077	1	0.083
2002	0.083	0.081	0.079	0.075	0	0.081
2003	0.088	0.087	0.085	0.084	3	0.078
2002	0.083	0.081	0.079	0.075	0	0.081
2003	0.088	0.087	0.085	0.084	3	0.078
2004	0.091	0.083	0.082	0.078	1	0.079
2003	0.088	0.087	0.085	0.084	3	0.078
2004	0.091	0.083	0.082	0.078	1	0.079
2005	0.089	0.086	0.085	0.085	4	0.082